

PATENT ABSTRACTS OF JAPAN

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(54) FILLING METHOD FOR MOLTEN ACETYLENE

(57)Abstract:

PURPOSE: To make it possible to fill acetylene into bombs in a short time at a pressure lower than a regulated pressure and to make it possible to discover a gas leak immediately by a method wherein the bombs are immersed in a cooling liquid within a cooling tank so as to be cooled and then compressed acetylene is put into the bombs to the full while the bombs are kept immersed in the cooling liquid.

CONSTITUTION: An aqueous solution 2 containing about 30% of ethylene glycol serving as the cooling liquid is poured into the cooling tank and the bombs 3 are immersed into the solution 2 while they are suspended by a crane C. In this case, flexible pipes 5 fixed to the top ends of valves 4 corresponding to the individual bombs 3 are connected to the bombs prior to the insertion of the bombs into the cooling liquid so that the pipes 5 are also immersed into the cooling liquid 2 together with the bombs. The bombs thus pre-cooled are filled with the compressed acetylene through a supply pipe 6. Consequently, the heat of solution of the acetylene is adsorbed by the bombs and therefore, the elevation of temperature at the time of filling the acetylene into the bombs is controlled to a low level.

